Continuing Education

Graduate Education

DO NOT REMOVE FROM FILE

WORCESTER STATE COLLEGE

SUMMER SESSION 1974

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GENERAL INFORMATION

The courses announced in this bulletin are offered by the Division of State Colleges in cooperation with the Worcester State College. The Division of State Colleges reserves the right to cancel any course which does not have a minimum enrollment of 20 students. Both graduate and undergraduate courses are offered. Courses carrying undergraduate credit only are numbered in the 7-series; courses carrying both graduate and undergraduate credit are numbered in the 8-series; courses carrying graduate credit only are numbered in the 9-series.

The Division of Graduate Education includes all students who have been matriculated (i.e. accepted as degree candidates) in the Graduate School at Worcester State College. Matriculated students will follow a sequential program leading to a Master of Education with a concentration in a chosen field.

The Division of Continuing Education offers courses to serve the needs of all non-matriculated graduate and undergraduate students. Individuals enrolled in Institutes, Workshops, Mini Courses and Community Service Courses (non-credit) are also serviced by Continuing Education.

The Divisions of Graduate Education, Continuing Education and Extended Day compliment each other in course offerings. Students may take advantage of all courses offered in the late afternoons and evenings provided they fulfill the necessary requirements within a student's curriculum.

TUITION

Per Semester Hour

Graduate and Continuing Education

Massachusetts Resident	$22.00
Non-Resident of Massachusetts	$29.00
Audit (Resident and Non-Resident)	$15.00

FEES

Registration Fee Per Semester (Fee non-refundable)	$10.00
Library Fee Per Semester (Fee non-refundable)	$10.00
Late Registration Fee	$ 2.00
Course Change Fee	$ 2.00
Parking Fee (Academic Year)	$ 2.00
Graduate Fee (Persons receiving degrees)	$ 5.00

Under no circumstances will any of the registration and library fees be returned. A payment of tuition and/or fees made at the time of registration with a bad check will result in the cancellation of the student's registration until the tuition and/or fees and the penalty are properly paid. The penalty for tendering a bad check is $10.00. **All Tuition and Fees Are Due the Day of Registration and Are Payable by Check or Money Order Only. A Separate Check is Required for the Parking Decals.**

REGISTRATION POLICY

REGISTRATION IN PERSON:

Matriculating students in Master's or Bachelor's degree program may register from April 29, 1974 thru May 2, 1974 between the hours of 3:00 and 9:30 p.m., and Friday, May 3, 1974 from 1:30 to 4:30 p.m.

Non-Matriculating Students may register from May 6, 1974 thru May 9, 1974 between the hours of 3:00 and 9:30 p.m., and Friday, May 10, 1974 from 1:30 to 4:30 p.m.

General Registration Students may register from May 13, 1974 thru June 28, 1974, Mondays thru Thursdays. Daily hours are 9:00 a.m. to 5 p.m. Evening hours are 6:00 to 9:30 p.m. Fridays from 9:00 a.m. to 4:30 p.m.

Late Registration – July 1 to 5, 1974

REGISTRATION BY MAIL:

Mail registrations will be accepted between May 1, 1974 and June 7, 1974. Registration postmarked after June 7, 1974 will be returned unprocessed to the students. These students must then register at the General Registration period. Students should complete the registration form accurately. They should determine the amount of payment by using information provided in the Bulletin. The completed registration form, check, and self-addressed envelope should be mailed to:

Division of Graduate and Continuing Education
Worcester State College
Worcester, Massachusetts 01602

After the registration has been processed, the student will receive by mail a class admission's card for the course or courses.

TUITION REFUNDS

Refunds for withdrawal from a course will be made according to the following schedule:

Attendance at the first class meeting only	100% refund
Attendance at class meetings 2, 3, 4, or 5	60% refund
Attendance at class meetings 6, 7, 8, 9, or 10	20% refund
Attendance at any class meeting after the 10	0 refund

Attendance at Workshops and Institute will be made according to the following schedule:

First day of class meeting	60% refund
Second day of class meeting	20% refund
Third day of class meeting	0 refund

A student who is entitled to a refund must obtain a form for each course for which a refund is due and file it with the Office of the Program of Continuing Education, S-112, Science Building. Telephone and other unofficial notices will not be acceptable as notification of withdrawal. The day and time that the notice is received will be the official date of withdrawal.

CREDIT INFORMATION

Regulations and requirements for degree study may be obtained at the Offices of Continuing Education and Graduate Education, Science Building, Room 112, Worcester State College. It is urgently recommended that the guidance and advice of the Directors and your faculty advisor in your field of concentration, wherein you must have five approved courses, be sought and faithfully followed in the planning of a program of study. For teachers in service, a maximum of six semester hours per semester may be credited toward a degree. The Graduate Record Examination required of all graduate degree students will be conducted at Worcester State College, registration through Educational Testing Service, Princeton, New Jersey, should be completed three weeks prior to the test. Test Date: June 15, 1974.

For Degree Candidates, Only the APTITUDE Part of This Test is Required. It Must be Taken During the First Year of Graduate Study.

The degree of Master of Education is awarded at the State Colleges at Boston, Bridgewater, (including Hyannis Summer Session), Fitchburg, Framingham, North Adams, Salem, Westfield and Worcester. Graduate courses in partial fulfillment of the requirements for this degree may be offered from time to time in the other State Colleges and the Massachusetts College of Art, subject to advance approval by Worcester State College.

All Degree Candidates Must File an "Intention To Graduate" Form With the Director in Room S-112 When Registering for the Final Course. Post Ed.M. Students Must Receive the Honor Grades of A or B for Credit.

WITHDRAWAL

Ceasing to attend a class does not constitute official withdrawal from a course. If notice is not given to the Offices of Continuing Education and Graduate Education a grade of failure will be recorded.

COMPREHENSIVE EXAMINATIONS

The Graduate Comprehensive Examination will be conducted on July 26, 1974 at 2:00 p.m. All degree candidates are required to take this examination.

LIBRARY CARDS

If you do not have a library card, please register for one at the Learning Resources Center.

PARKING REGULATIONS

Students must park in the student parking areas behind the Science Building or to the side of the Gymnasium Building.

ADVISING

Advising assistance in selection and registering in all courses is available in Room S-112, Science Building, Worcester State College Graduate Office, Telephone: 799-2405, 756-5121.

VETERANS

WORLD WAR II AND KOREAN – Any resident of Massachusetts who has served in any branch of the armed forces for at least ninety days, one of which must have been served either between September 16, 1940 and December 31, 1946, or between June 25, 1950 and January 31, 1955 and who has a discharge other than dishonorable may enroll without charge for instruction in any course here offered within the established limitation of 120 semester hours. To establish his eligibility the veteran must present his discharge (or photostatic copy) or a certificate of satisfactory service in the case of an officer together with proof of residence in advance of the opening date of the class meeting. Veterans in this category must show proof of their ineligibility for education benefits under P.L. 351, Chapter 34.

VIETNAM AND COLD WAR VETERANS – Veterans in this category who are ineligible for educational benefits under P.L. 351, Chapter 34 and who are registered in a Bona Fide Bachelor or Master's degree program may be exempt from tuition payment under the following conditions:

1. That they show proof of not being eligible for Federal Education Benefits.
2. That they still have eligibility under Massachusetts General Laws.

It is very unlikely that any Vietnam or Cold War Veteran would be eligible for tuition free courses since the passing of the recent legislation of Chapter 514 on tuition free veteran courses in the Program of Continuing Education. **For Registration Purposes All Veterans Who Are Not Exempt From Paying Tuition Must Register on Non-Veteran Registration Cards.**

FACULTY

JOHN F. EAGER, B.S., Ed.M. *Director: Program of Continuing Education*
GEORGE P. MELICAN, B.S., Ed.M., C.A.G.S., Ed.D. *Director: Graduate Studies*

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LOIS TWITCHELL
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ANN WILCOX
MANUEL ZAX, A.B., Ed.M., Ed.D.
FAITH ZEADEY, B.S., M.A.
MATTHEW ZELMAN, B.A., M.A.

COURSE LISTINGS

ART

AR8-263	Creative Painting I	Daily 11:20-12:35 p.m.	D. Carter	A-400
AR8-261	Teaching Art in the Classroom	Daily 9:55-11:10 a.m.	D. Carter	A-400

BIOLOGY

BI8-954	Entomology	Daily 11:20-12:35 p.m.	S. Paracer	S-128
BI8-956	General Zoology	M & W 7:00-10:00 p.m.	S. Paracer	S-128
BI8-211	Human Anatomy & Physiology I	Daily 8:30-9:45 a.m.	B. Russell	S-128
BI8-212	Human Anatomy & Physiology II	Daily 9:55-11:10 a.m.	B. Russell	S-128
BI8-866	Intro to Biological Techniques	T & Th. 7:00-10:00 p.m.	T. Roberts	S-128

BUSINESS ADMINISTRATION

AD7-100	The Administrator	Daily 9:55-11:10 a.m.	T.B.A.	S-205
AD7-471	Internship in Business Administration	Daily 11:20-12:35 p.m.	T.B.A.	S-217
AD7-461	Internship in Government Administration	Daily 11:20-12:35 p.m.	T.B.A.	S-214
AD7-110	Introduction to Accounting	Daily 8:30-9:45 a.m.	T.B.A.	S-205
AD9-099	School Finance III	Daily 9:55-11:10 a.m.	R. Goss	S-304

CHEMISTRY

CH8-864	Environmental Chemistry	T & Th. 7:00-10:00 p.m.	A. Cooper	S-316
CH7-800	Introduction to Chemistry	M & W 7:00-10:00 p.m.	A. Cooper	S-316
CH8-948	Introduction to Organic & Biochemistry	Daily 8:30-9:45 a.m.	M. Merken	S-301
CH8-871	Studies in Contemporary Science	Daily 11:20-12:35 p.m.	M. Merken	S-301

COMMUNICATION DISORDERS

CD8-048	American Sign Language	Daily 9:55-11:10 a.m.	S. Bittick	S-125
CD8-230	Phonetics	Daily 8:30-9:45 a.m.	J. McLaughlin	S-125
CD8-370	Rehabilitation of the Auditorily Impaired	Daily 8:30-9:45 a.m.	R. Guerin	S-126
CD8-260	Speech, Hearing & Language Disfunction in the Classroom	Workshop July 1–12 Daily 8:15-12:30 p.m.	C. Lysaght	S-223

COMPUTER SCIENCE

CS8-579	Computer Programming with Fortran IV	T & Th. 7:00-10:00 p.m.	M. Mulcahy	S-227
CS8-170	Computer Workshop in Cobol Programming	Workshop July 1 – 12 Daily 8:15-12:30 p.m.	A. Haynes	LRC-118
CS8-013	Workshop in Computer Science	Workshop July 1 – 12 Daily 8:15-12:30 p.m.	R. Redding & W. Spezeski	LRC-114

ECONOMICS

EC8-225	Consumer Economics	Workshop July 29–Aug. 9 Daily 8:15-12:30 p.m.	G. Kelley	LRC-120
EC8-224	Economic Education	Workshop July 15 –26 Daily 8:15-12:30 p.m.	S. Trimby	LRC-118

EDUCATION

ED9-315	Administration of Programs for Young Children	Workshop July 15–26 Daily 8:15-12:30 p.m.	J. Polito	LRC-112
ED8-099	Adult Education Workshop	Workshop July 29–Aug. 9 Daily 8:15-12:30 p.m.	M. Rossman	LRC-304
ED9-290	Advanced Phil Found of Education	Daily 11:20-12:35 p.m.	W. Masterson	S-132
ED9-291	Advanced Phil Found of Education	M & W 7:00-10:00 p.m.	D. Traub	S-226
ED9-752	Advanced Psych Found of Education	Daily 11:20-12:35 p.m.	B. Guarini	S-227
ED9-753	Advanced Psych Found of Education	M & W 7:00-10:00 p.m.	J. Shea	S-205
ED8-018	Begone Dull Grammar	Workshop July 15–26 Daily 8:15-12:30 p.m.	C. Osborne	LRC-120

ED8-030	Career Education	Workshop July 29—Aug. 9 Daily 8:15-12:30 p.m.	T.B.A.	S-309
ED8-015	Characteristics of Children with Learning Disabilities	Daily 8:30-9:45 a.m.	E. Kallgren	S-310
ED8-019	Child Development & Developmental Deviations	Workshop July 15 –26 Daily 8:15-12:30 p.m.	J. Bunuan	LRC-116
ED8-152	Children's Literature	Daily 9:55-11:10 a.m.	J. Mitchell	S-316
ED8-316	Community Organizations	T & Th. 7:00-10:00 p.m.	J. Simoncini	S-225A
ED9-059	Decoding in Reading Instruction	Daily 11:20-12:35 p.m.	J. Mitchell	S-316
ED9-081	Developing Independent Learning Activities in Reading & Language Arts	Workshop July 1 – 12 Daily 8:15-12:30 p.m.	T.B.A.	S-313
ED8-009	Developing Independent Mathematics for Young Children	Workshop July 15 – 26 Daily 8:15-12:30 p.m.	T.B.A.	S-313
ED9-010	Diagnosis & Remediation of Learning Disabilities	Daily 11:20-12:35 p.m.	E. Kallgren	S-310
ED8-064	Educational Measurement & Evaluation	Workshop July 1 – 12 Daily 8:15-12:30 p.m.	R. Griffiths	S-309
ED8-005	Humanistic Education	Workshop July 29 – Aug 9 Daily 8:15-12:30 p.m.	C. Osborne	LRC-121
ED8-002	Humanizing Social Studies in El. School	Daily 9:55-11:10 a.m.	G. Joseph	S-212
ED8-304	Individualizing Instruction in Elementary School	Workshop July 15 – 26 Daily 8:15-12:30 p.m.	C. Geer	S-311B
ED8-305	Individualized Instruction in Secondary School	Workshop July 1 – 12 Daily 8:15-12:30 p.m.	D. Quist	LRC-304
ED8-750	Intro. to Psych Found of Education	Daily 8:30-9:45 a.m.	B. Guarini	S-227
ED8-751	Intro. to Psych Found of Education	M & W 7:00-10:00 p.m.	K. Burns	S-205
ED9-060	Lab Practicum in Remedial & Corrective Reading	Daily 8:30-11:10 a.m.	J. O'Mara	Sci. Study Hall
ED8-312	Methods & Materials Workshop in Early Childhood Education	Workshop July 1 – 12 Daily 8:15-12:30 p.m.	J. Polito	LRC-112
ED8-550	Modern Mathematics in Intermediate Grades	Workshop July 15 –26 Daily 8:15-12:30 p.m.	G. Aspesi	S-311A
ED8-057	New Trends in Teaching of Reading	Daily 8:30-9:45 a.m.	T.B.A.	S-314
ED9-010	Open Education at the Intermediate Level	Workshop July 1 – 12 Daily 8:15-12:30 p.m.	L. Twitchell & A. Wilcox	LRC-323
ED9-007	Open Education at the Primary Level	Workshop July 1 – 12 Daily 8:15-12:30 p.m.	L. Ramsay & M. Schilpp	LRC-323
ED9-088	Organization & Adm. of the Elm. School	Daily 8:30-9:45 a.m.	G. Joseph	S-212
ED8-290	Philosophy of Education	Daily 9:55-11:10 a.m.	W. Masterson	S-132
ED8-291	Philosophy of Education	T & Th. 7:00-10:00 p.m.	C. Schlosser	S-231
ED8-073	Principles of Curriculum Development	Daily 8:30-9:45 a.m.	M. Zax	S-228
ED9-092	Public School Administration	M & W 7:00-10:00 p.m.	T. Provo	S-231
ED8-053	Reading in the Elementary School	Daily 9:55-11:10 a.m.	T.B.A.	S-227
ED9-051	Research in Education	Daily 8:30-9:45 a.m.	A. Eddy	S-226
ED9-052	Research in Education	M & W 7:00-10:00 p.m.	D. Hilton	S-228
ED8-004	Science Activities for the Elm. School	Workshop July 29 – Aug. 9 Daily 8:15-12:30 p.m.	C. Geer	S-311A
ED9-013	Seminar in Human Relations Training for Teachers & Administrators of Young Child.	Workshop July 29 – Aug. 9 Daily 8:15-12:30 p.m.	J. Bunuan	LRC-116

ENGLISH

EN8-156	Mythology	Daily 9:55-11:10 a.m.	B. Glazer	S-211A
EN8-185	Selected Readings Edgar Allan Poe	Daily 8:30-9:45 a.m.	R. Sullivan	S-211A
EN8-170	The Theater of George Bernard Shaw	T & Th. 7:00-10:00 p.m.	J. Roberts	S-225B

GEOGRAPHY

GE8-437	Cartography & Geographic Techniques	Daily 11:20-12:35 p.m.	R. Thompson	A-300
GE9-436	Conservation & Natural Resource Mgt.	Daily 9:55-11:10 a.m.	G. Downey	A-302
GE8-420	Economic Geography	Daily 8:30-9:45 a.m.	G. Downey	A-302
GE8-422	Physical Geography	Daily 9:55-11:10 a.m	R. Thompson	A-315
ED9-088	Workshop in Economic Ed. Elementary	Workshop July 1 – 12 Daily 8:15-12:30 p.m.	T.B.A.	S-311A
ED9-101	The Substitute Teacher in the Elementary	Workshop July 15 – 26 Daily 8:15-12:30 p.m.	R. Griffiths	S-309

GUIDANCE

GU9-071	Advanced Psychological Testing	T & Th. 7:00-10:00 p.m.	R. Gilmartin	S-217
GU8-069	Counseling & Guidance in the Elm. School	Daily 8:30-9:45 a.m.	T.B.A.	S-117A

GU9-069	Individualized Intelligence Binet	M & W 7:00-10:00 p.m.	D. Quist	S-212
GU9-068	Individualized Intelligence Weschler	Daily 11:20-12:35 p.m.	G. Taylor	S-226
GU9-062	Org. & Adm. of Guidance Services	Daily 9:55-11:10 a.m.	G. Taylor	S-226
GU8-061	Principles & Practices of Guidance	M & W 7:00-10:00 p.m.	L. Farrey	S-217
GU9-066	Pupil Personnel Services	M & W 7:00-10:00 p.m.	N. Limoges	S-214
GU8-063	Techniques of Counseling	T & Th. 7:00-10:00 p.m.	P.Steinkrauss	S-214

HISTORY

HI8-659	Marxist Theory	T & Th. 7:00-10:00 p.m.	G. Leeds	S-219A
HI8-692	Political Parties & Pressure Groups	M & W 7:00-10:00 p.m.	D. Twiss	S-227
HI8-669	The Presidency	Daily 8:30-9:45 a.m.	D. Twiss	S-225B
HI8-666	Soviet Foreign Policy	Daily 8:30-9:45 a.m.	J. Hen-Tov	S-224
HI8-670	Soviet Government & Politics	Daily 9:55-11:10 a.m.	J. Hen-Tov	S-224
HI8-668	U.S. Constitutional History 1789-Present	Daily 11:20-12:35 p.m.	R. Spector	S-231
HI8-667	U.S. History since 1945	Daily 9:55-11:10 a.m.	R. Spector	S-231

LANGUAGE

SP8-610	Fundamentals of Spanish I	M & W 7:00-10:00 p.m.	V.DeBenedictis	S-312

MATHEMATICS

MA8-583	Abstract Algebra	M & W 7:00-10:00 p.m.	W. Hill	S-211B
MA8-570	Calculus I	Daily 9:55-11:10 a.m.	K. Schoen	S-211B
MA8-500	History of Mathematics	Daily 8:30-9:45 a.m.	K. Schoen	S-211B

MEDIA

ME8-278	Advanced Photography	Workshop July 15 –26 Daily 8:15-12:30 p.m.	W. Byers	LRC-122
ME8-280	Advertising & Publicity Media	Daily 11:20-12:35 p.m.	D. Seiffer	LRC-116
ME8-273	Cataloging & Organizing Learning Materials	Workshop July 29 – Aug 9 Daily 8:15-12:30 p.m.	V. Piccolo	LRC-118
ME8-275	Introduction to Photography	Workshop July 1 –12 Daily 8:15-12:30 p.m.	W. Byers	LRC-122
ME8-270	Introduction to Reference Sources	T & Th. 7:00-10:00 p.m.	B. McGough	LRC-118
ME8-051	Introduction to Theatre	Daily 9:55-11:10 a.m.	D. Seiffer	LRC-116
ME8-153	Learning Resources for Young Adults	Daily 8:30-9:45 a.m.	B. McGough	LRC-120
ME8-071	Preparation of Inexpensive Instructional Media	Workshop July 1 –12 Daily 8:15-12:30 p.m.	P. Davis	LRC-118
ME8-152	Utilization of Instructional Media	M & W 7:00-10:00 p.m.	P. Davis	LRC-116

MUSIC

MU8-251	Music Appreciation	M & W 7:00-10:00 p.m.	A. Kaminsky	S-124
MU8-082	Music in the Elementary School	Daily 8:30-9:45 p.m.	A. Kaminsky	S-124

NURSING

NU8-932	Current Concepts of Public Health Nursing	M & W 7:00-10:00 p.m.	B.McQueeney	S-224
NU7-310	Nursing through the Life Span I: Medical Surgical Nursing	Tuesdays Only 8:30-11:30 a.m./12:30-3:30 p.m.	M. Lovering	S-231
NU7-330	Nursing Through the Life Span I: Psychiatric Nursing	M & W 7:00-10:00 p.m.	E.Rademacher	S-226
NU8-933	The Nurse and the Law	T & Th. 7:00-10:00 p.m.	G. Najemy	S-125
NU8-930	The Person in the Profession of Nursing	T & Th. 7:00-10:00 p.m.	L. Goodman	S-132

PHILOSOPHY

PH8-130	Ethics: Moral Dimensions of Human Exist.	Daily 11:20-12:35 p.m.	N. Brophy	S-225A
PH8-100	Logic, Knowledge, and Wisdom	Daily 9:55-11:10 a.m.	N. Brophy	S-225A
PH8-120	Philosophical Psychology	T & Th. 7:00-10:00 p.m.	D. Traub	S-226
PH8-748	Philosophy of Human Potentiality: an Experiential Approach	Workshop July 15 – 26 Daily 8:15-12:30 p.m.	C. Schlosser	LRC-304
PH8-245	Philosophy of Social Sciences	Daily 8:30-9:45 a.m.	G. Robbins	S-225A

PHYSICAL EDUCATION

PE8-006	Learning Through Movement & Interrelated Arts	Workshop July 1 – 12 Daily 8:15-12:30 p.m.	H.Semerjian	Gym

PHYSICAL SCIENCE

PY8-893	Man's Environment: The Oceans	Daily 11:20-12:35 p.m.	H.Chapman	S-228
PY7-869	Physical Science	Daily 9:55-11:10 a.m.	H.Chapman	S-228

PSYCHOLOGY

PS8-755	Child Growth & Development	Daily 8:30-9:45 a.m.	J. Jones	S-219A
PS8-758	Psychology of Adolescence	Daily 9:55-11:10 a.m.	J. Jones	S-219A

PS8-214	Workshop in Psychological Statistics & Psychological Testing	Workshop July 1 – 12 Daily 8:15-12:30 p.m.	J. Widmayer & M. Allard	LRC-120

SOCIOLOGY

SO8-219	Courtship & Marriage	Daily 8:30-9:45 a.m.	B. Khleif	S-219B
SO8-220	Criminology	Daily 8:30-9:45 a.m.	R. Goss	S-304
SO8-221	Cultural Anthropology	T & Th. 7:00-10:00 p.m.	M. Zelman	S-126
SO8-475	Introduction to Sociology	M & W 7:00-10:00 p.m.	F. Pizziferri	S-227
SO8-223	Seminar in Contemporary Social Problems	T & Th. 7:00-10:00 p.m.	F. Brooker	S-228
SO8-470	Sociology of Education	Daily 9:55-11:10 a.m.	B. Khleif	S-219B
SO8-021	Sociologyof Religious Movements	Workshop July 1 –12 Daily 8:15-12:30 p.m.	F. Zeady	LRC-116

INSTITUTES

ED8-766	Impact of Chapter 766: Meeting the Special Needs of All Children June 24 – 29: 8:30 - 11:30 a.m. & 1:00 - 3:00 p.m. July 1 – 5 : 1:00 - 3:00 p.m. Dr. S. Josephina Concannon	Amphitheatre
SP8-102	Pre-Institute Workshop July 1 – 12: Daily 8:15 - 12:30 p.m. Instructor to be announced	LRC-121
SP8-103	Spanish Institute (4 S.H.) July 22 – August 9: Daily 8:15-12:30 p.m. Staff	LRC-112

COURSE DESCRIPTIONS

DAILY 8:30 - 9:45 a.m.

AD7-110 Introduction to Accounting

This is the first semester of a two semester course that teaches the basic structure and the fundamental concepts and principles of accounting. This includes the nature and classification of accounts, the development of accounting records including special purpose journals, controlling accounts and subsidiary ledgers, and other systems and controls. The establishment of the accounting cycle and the preparation of financial statements is also covered. Consideration of such areas as sales, purchases, cash, receivalbles, payable inventories, deferrals, accruals and plant assets are included.
Instructor: T.B.A. S-205
3 Semester Hours

BI8-211 Human Anatomy and Physiology, I

This course will consider the anatomy and physicology of the human body under normal circumstances — the organization, integration and dynamics of the following areas and systems being stressed; pre-tissue biology, histology, skeletal, muscular, cardiovascular, and nervous. The lectures and text will be augmented as well as dissection of selected organs and specimen in the laboratory.
Bruce Russell S-128
4 Semester Hours

CD8-230 Phonetics

A study of the production of speech sounds in the English language, study and practice in the use of the the general American phonetic symbols, practice in phonetic and allophonic transcription, and introduction to the mechanics of voice production.
John P. McLaughlin S-125
3 Semester Hours

CD8-370 Rehabilitation of the Auditorily Impaired

Theoretical approach to teaching practices to improve speech communication for the auditorily impaired. Consideration of hearing impairment on visual and auditory perception of speech. Basic orientation to systems of sound amplification and hearing aids. Formerly called: Speech Reading and Auditory Training.
Rose D. Guerin S-126
3 Semester Hours

CH8-948 Introduction to Organic and Bio-Chemistry

The organic portion of this course will emphasize the study of group properties as determined by modern electronic theory and molecular structure. Topics in biochemistry include nucleic acids, biochemical reactions, enzymes, and other basic principles. Representative laboratory experiments will be performed. A previous knowledge of general chemistry is desirable but not essential.

Melvin Merken S-301
3 Semester Hours

ED9-290 Advanced Philosophy of Education

This course has the two-fold purpose of (1) studying and evaluating the contributions made by outstanding philosopher-educators both of the past but especially of the modern eras and (2) analyzing the basic philosophical issues and problems in education and society and the alternatives posed by the different philosophical systems and assumptions. The student is expected to read and analyze the original contributions of the major philosophers in order to determine to what extent a synthesis of viewpoint may be achieved. Prerequisite: Intro to Philosophical Foundations of Education or permission of the instructor.

William K. Masterson S-132
3 Semester Hours

ED8-015 Characteristics of Children with Learning Disabilities

This course provides a basic understanding of the learning disabled child through a consideration of the history and development of the area; the terminology and the current points of view. Factors which impede learning will further be analyzed through a discussion of diagnostic procedures. Class size limited to 20.

Elizabeth Kallgren S-310
3 Semester Hours

ED8-750 Intro Psychological FNDS of Education

This course covers the theoretical aspects of psychology for the classroom teacher. It includes a systematic analysis of the major schools of psychology and a study of the effects of heredity and environment. Reading in the following areas will be required: results of research on growth and development, theories of intelligence, concepts in measurement and evaluation, individual differences in capactiy and achievement, and learning theory.

Bernard Guarini S-227
3 Semester Hours

ED9-060 Laboratory Practicum in Remedial and Corrective Reading

Study will be made of the symptoms and causes of reading disabilities and the procedures which may be used to aid their correction. Each graduate student will be required to diagnose and analyze a pupil's reading difficulties through formal and informal procedures. A remedial program will be initiated and carried out for the pupils in a clinical setting. Cases will be from grades three through six. A case history

of the remedial pupil will be required. This will include initial and final testing results along with the remedial techniques used. A double period time block will consist of a seminar on the diagnostic and corrective procedures, followed by a work period with the pupil under supervision of the course instructor. Course Prerequisites: (1) Three years teaching experience in the teaching of reading at the elementary level; (2) One basic course in the teaching of reading at the elementary school level. The course will carry six (6) semester hours graduate credit. Class size will be limited.

J. Francis O'Mara Science Study Hall
6 Semester Hours

ED8-057 New Trends in the Teaching of Reading

This course is designed to cover the function of reading in the modern school program, effective procedures for developing the basic reading skills, practical techniques for improving pupil competence in the reading-study skills of content areas and methods of diagnosing and correcting reading deficiences. Prerequisite: The Teaching of Reading or permission of instructor.

Instructor: T.B.A. S-314
3 Semester Hours

ED9-088 Organization and Administration of the Elementary School

This course will emphasize the many facets of elementary school administration and organization. The role of the principal as an administrator in the larger setting of present day education will be stressed. Specifically, the course will deal with the principal's role in organizing for teaching and learning, administering pupil personnel and special services and integrating school and community life.

George T. Joseph S-212
3 Semester Hours

ED8-073 Principles of Curriculum Development

Theories and practices of modern curriculum development. Roles of society, culture, learner, teacher, administrator. Planning, involving objectives, structure, balance, diagnosis. Strategy, experimentation in change.

Manuel Zax S-228
3 Semester Hours

ED9-051 Research in Education

This course will stress the use of appropriate research methods in the selection and evalualtion of data. It is designed to aid the graduate student in the preparation and understanding of research reports. Major areas of emphasis will include the nature and criteria for evaluating research, library techniques and resources, selection and documentation, organization and format of report, and necessary statistical concepts and methods of research. The student will be expected to demonstrate his knowledge of these in a term research study.

Alfred E. Eddy S-226
3 Semester Hours

EN8-185 Selected Readings of Edgar Allan Poe

We piously imagine that behind the diversified Poe canon

lurks a sufficiently coherent set of concerns, presuppositions, anxieties, hopes, etc., i.e. the Poe "Vision". The course will work through the writings in their diversity to this underlying perspective.
R. Sullivan S-211A
3 Semester Hours

GE8-420 Economic Geography

Geographic factors contributing to the localization of economic activities; distribution, production and trade.
George Downey A-302
3 Semester Hours

GU8-069 Counseling and Guidance in the Elementary School

A consideration of the philosophy, principles and practices of guidance and counseling in the elementary schools. Particular attention will be paid to prevention, early intervention, and referral procedures, also, attention will be given to possible treatment procedures which can be employed by teachers and counselors for children with various kinds of learning disabilities, deficits, and behavioral problems.
Instructor: T.B.A. S-117A
3 Semester Hours

HI8-669 The Presidency

This course will deal with the development of the presidency and the relationship between this development and the balance of powers.
David Twiss S-225B
3 Semester Hours

HI8-666 Soviet Foreign Policy

Analysis of the History of Soviet Foreign Relation under Lenin, Stalin, Krushchev and Brezhnev: The role of idiology in the formulation and implementation of Soviet Foreign Policy. Russia's relations with developing countries as well as the Sino-Soviet rift will be closely examined.
Jacob Hen-Tov S-224
3 Semester Hours

MA8-500 History of Mathematics

This course surveys the developments of algebra, arithmetic, plane geometry and trigonometry by tracing certain fundamental concepts in mathematics, such as number, counting, relations and others to a accomplish such developments. It is necessary to demonstrate the formalization of deductive and inductive reasoning from an axiomatic approach. This course will start with Euclid and end with the 20th Century.
Kenneth Schoen S-211B
3 Semester Hours

ME8-153 Learning Resources for Young Adults

This course is deisgned to provide teachers and librarians with a knowledge of the fundamental principles in evaluation and selecting books and related materials for young adult, (grade 7 - 12), junior and senior high schools, handling controversial book problems, the sources for non-

book materials. Emphasis will be placed on relating selection practices to the educational program of the modern secondary school.This course will satisfy, in part, the requirements for the public school librarian's certificate.
Bernard McGough LRC-120
3 Semester Hours

MU8-082 Music in the Elementary School

The place of music in the elementary curriculum with emphasis on the six areas of music taught in the public school: singing, listening, playing, moving, creating, and reading. Presentation of rote and listening songs for guiding growth in rhythm, notation, and listening experiences. Survey of music series, recordings, rhythm instruments and other audio-visual materials used in the classroom.
Abram Kaminsky S-124
3 Semester Hours

NU7-310 Nursing Through the Life Span I: Medical and Surgical Nursing

A course for Registered Nurses in which the concepts of nursing process as applied to medical-surgical nursing practice will be the focus.
Mary L. Lovering S-231
TUESDAYS ONLY:
3 Semester Hours

PH8-245 Philosophy of the Social Sciences

In this course the theories and methods of Social Science will be examined in order to A) disclose the implicit premisses of Social Science models of man; B) delineate the existential ramifications of the premisses. These deliberations will be bases for discussing the question: What are (or should be) the differences between Social Science and other kinds of Science?
Gerald Robbins S-225A
3 Semester Hours

PS8-755 Child Growth and Development

The human organism from conception through adolescense; sequential patterns and characteristics of personality development vis-a-vis physical growth;
Joline Jones S-219A
3 Semester Hours

SO8-219 Courtship and Marriage

The study of American customs of courtship and marriage; attention will be given to past and present marital laws, theories of mate selection, marital prediction, and marital roles.
Baheej Khlief S-291B
3 Semester Hours

SO8-220 Criminology

This course will be concerned with theories of crime causation, and perspectives on administration, treatment, prevention, and prediction. Consideration will be given to the influence of social class and other factors in criminal behavior.
Robert W. Goss S-304
3 Semester Hours

DAILY: 9:55 - 11:10 a.m.

AD8-100 The Administrator

A one semester course introducing students to administration. This course includes lectures, discussions, and the presence of administrators in the fields of business, health and government. Why the administrator is required, what he does, and how he does it is the focus of the course. The principal purpose of this one semester course is to act as a liberal arts survey of administration for all students, and to outline the reasons for, and subject material in the field of administrative studies for potential majors and minors.

Instructor: T.B.A. S-205
3 Semester Hours

AD9-099 School Finance III

This course is intended for the specialist in school administration who is concerned primarily with the allocation of funds. The student will consider in depth the many factors involved in planning, construction, maintaining and administering the modern school plant.

Robert W. Goss S-304
3 Semeseter Hours

AR8-261 Teaching Art in the Classroom

This course is concerned with the place and function of art in the public schools and stresses contemporary practices through studio experiences. No prerequisites.

Doris N. Carter A-400
3 Semester Hours

BI8-212 Human Anatomy and Physiology II

This course will consider the anatomy and physiology of the human body under normal circumstances — the organization, integration, and dynamics of the following areas and systems being stressed: respiratory, digestive, excretory (water balance), endocrine, and reproduction. The lectures and text will be augmented by appropriate physiological demonstrations and/or experiments, as well as dissection of selected organs and specimens in the laboratory.

Bruce Russeel S-128
4 Semester Hours

CD8-048 American Sign Language

Students will be exposed to the manual alphabet a.k.a. finger spelling both expressively and receptively, enabling them to learn a minimum of 600 signs in the American Sign Language and the fundamental concepts of deaf grammatical structure so that basic sentences can be termed.

Sari L. Bitticks S-125
3 Semester Hours

ED8-152 Children's Literature

This course is designed to broaden teacher's acquaintance with literature suitable for elementary school children and to present effective procedures for fostering a love of good reading. Topics covered will include the classics, current

fiction and non-fiction, the Newbury and Caldecott Awards, effective techniques of story-telling, interpretation of verse for children, illustrators of children's books, and sources of display materials.
Joanne Mitchell S-316
3 Semester Hours

ED8-002 Humanizing Social Studies in the Elementary School

The integration of the several areas of social sciences as they are related to the child and his environment. These areas will include: Sociology, Philosophy, Psychology, Economics, Anthropology, History and Geography.
George T. Joseph S-212
3 Semester Hours

ED8-290 Philosophy of Education

This course will consider the ontological-epistemological-axiological principles of being, knowledge, and value and their relationship to the nature, existence and destiny of man and the aims of education. An analysis of the metaphysical presuppositions of the major philosophers will be a basis of a critique of the opinions concerning nature, man, science, society, sanity and salvation upon which "educationists" have foundered and floundered. The objective is to arrive at a precise understanding of the relations between educational theory and practice in order to establish a viable interpersonal process for educating the individual and society.
William Masterson S-132
3 Semester Hours

ED8-053 Reading in the Elementary School

Intensive overview of the basic reading skills; effective teaching strategies; utilization of multi-media in reading instruction.
Instructor: T.B.A. S-227
3 Semester Hours

EN8-156 Mythology

Myths and legends of ancient Greece and Rome which form a part of the classical tradition in English literature; intensive reading of Thegony, the Iliad, The Odyssey, Aeneid, and selections from Metamorphoses.
B. Glazer S-211A
3 Semester Hours

GE9-436 Conservation and Natural Resource Management

Problems in resource management; attempt at seeking optimal solutions to problems within the existing framework of physical, social and economic constraints.
George Downey A-302
3 Semester Hours

GE8-422 Physical Geography

Geographic principles of location, characteristics of landfroms, soil, climate, minerals, water flora and fauna.
Robert Thompson A-315
3 Semester Hours

GU9-062 Organization and Administration of Guidance Services

This course will acquaint guidance counselors and supervisors in the elementary and secondary schools with the latest procedures, techniques and problems in guidance programs. Analysis and discussion of unusual home-room community group and individual guidance problems will be stressed. Clinical guidance procedures, testing and the principles and methods of interviewing will be presented. Prerequisite: Principles of Guidance

G. Flint Taylor S-226
3 Semester Hours

HI8-670 Soviet Government and Politics

The nature of the Soviet System of government: the Dynamics of modern totalitarianism and dictatorship, the role of the party as reflected in the domestic evolution of the Soviet System of Government.

Jacob Hen-Tov S-224
3 Semester Hours

HI8-667 United States History Since 1945

Political, foreign, social and economic affairs from 1945 to the present. The Truman, Eisenhower, Kennedy, Johnson and Nixon administrations. The Black Revolution of the 50's, Student Revolution of the 1960's, and Watergate.

Robert Spector S-227
3 Semester Hours

MA8-570 Calculus I

After a broader review of higher mathematics, students will be introduced to analytic and differential calculus, and will master the derivatives of polynomials; product, fraction, and chain rules; limits and continuity, curve sketching, applications to maximum and minimum and rate problems.

Kenneth Schoen S-211B
3 Semester Hours

ME8-051 Introduction to Theatre

The course gives a general over-view of the theatrical experience. Plays from major periods of theatrical activity provide a basis for examining the various arts within the field, i.e. acting, directing, playwriting, lighting, costuming, scene design, theatre architecture, etc.

David Seiffer LRC-116
3 Semester Hours

PH8-100 Logic, Knowledge and Wisdom: A Philosophical Encounter

A dialectical approach to the kinds of human knowledge and the nature of science and philosophy for the purpose of establishing an interdisciplinary understanding of curriculums. The student will be introduced to the basic forms of logical inquiry in order to formulate and evaluate logical arguments as a means of philosophical investigation and a defense against contemporary rhetoric.

Formerly PH8-778
Neil Brophy S-225A
3 Semester Hours

PS8-758 Psychology of the Adolescence

The mental, emotional, social and physical changes of the adolescent; special emphasis on peer group and school influences on development and the contemporary problems of adolescence.

Joline Jones S-219A
3 Semester Hours

PY7-869 Physical Science

A survey of physics and chemistry; evolution of concepts and theories; measurement, gravitation, energy, conservation laws, kinetic-molecular theory, and wave motion.

Harold L. Chapman S-228
3 Semester Hours

SO8-470 Sociology of Education

A course designed to study education, emphasizing the social process as well as the institutional structure. Particular attention will be given to the social roles of teachers, administrators, pupils, the group basis of education, and community influences.

Baheej Khlief S-219B
3 Semester Hours

DAILY: 11:20 - 12:35 p.m.

AD7-471 Internships in Business Administration

The Administrative Studies Program provides majors the opportunity to gain practical experience in the operations of business. Qualified students can spend a variety of part-time or full-time internships with cooperating business firms for varying lengths of time. The student participates in various managerial personnel. Students must participate in the Internship Seminar and submit a written report upon completion of the program. An evaluation of the student's effort will be secured from officials of the organization in which he interned. Prerequisites: AD-301, AD-306, or the consent of instructor. Variable Credits: 1-12 Semester Hours.

Instructor: T.B.A. S-217
3 Semester Hours

AD7-461 Internships in Government Administration

The Administrative Studies Program provides majors the opportunity to gain practical experiences in the operation of government. Qualified students can spend a variety of part-time or full-time internships with cooperating governmental agencies for varying lengths of time. The student participates in various managerial activities under the supervision of experienced executive and managerial personnel. Students must participate in completion of the program. An evaluation of the student's effort will be secured from officials of the organization in which he interned. Prerequisites: AD-301, AD-306, AD-310 or consent of the instructor. Variable Credit 1-12 Semester Hours.

Instructor: T.B.A. S-214
3 Semester Hours

AR8-263 Creative Painting I

The purpose of this course is to introduce the beginning student to the basic elements of painting and the tools employed. Both oil paints and polymer will be used and the student should learn to feel familiar and comfortable working with both media. No Prerequisites.
Doris N. Carter A-400
3 Semester Hours

BI8-954 Entomology

This course will consider the anatomy, behavior, habitats, natural history, physiology, and taxonomy of insects. Representative specimens are identified, classified, and dissected in the laboratory — student insect collections are required.
Surinder Paracer S-128
3 Semester Hours

CH8-871 Studies in Contemporary Science

This course will endeavor to convey an appreciation of the dynamics of science and scientists today. Concepts and theories at the frontiers of science will be considered through the work of selected investigators in the natural sciences. This course is intended for the non-scientist as well as those with a more specialized interest in the field. There are no prerequisites.
Melvin Merken S-301
3 Semester Hours

ED9-752 Advance Psychological FNDS of Education

In this course, class-members will study and evaluate the role of those environmental, mental and extra-mental forces which motivate all learners to utilize fully and effectively their capacities, aptitudes, and attitudes. It includes a systematic analysis of the major schools of psychology with special attention focused on the contemporary schools. Attention is given to the teachers' role in the learning process and special emphasis will be centered on the application of these principles to specific classroom situation. Prerequisites: Educational Psychology or permission of the instructor.
Bernard Guarini S-227
3 Semester Hours

ED9-059 Decoding in Reading Instruction

This course will include a study of the sound system of English (phoneme), the wirtten system of English (grapheme) and how they relate to each other. It will also include an examination of a variety of phonetic programs. These will be evaluated in terms of how they reflect the actual phoneme-grapheme relationships of English and in how they contribute to the development of independence in Reading.
Joanne Mitchell S-316
3 Semester Hours

ED9-010 Diagnosis and Remediation of Learning Disabilities

This course will include the use of group and individual diagnostic tests, and the interpretation of the data to child study techniques. Program for individualizing of

instruction in subject matter areas including methods and materials, and techniques will be based on diagnostic data.
Elizabeth Kallgren S-310
3 Semester Hours

GE8-437 Cartography and Geographic Techniques
This course will make use of diagrams, charts and maps and statistical analysis; field observations, planetabling, aerial photographic interpretation and original mapping.
Robert Thompson A-300
3 Semester Hours

GU9-068 Individual Intelligence and Appraisal WAIS-WISC
Study will be made of two major Wechsler tests, namely Wechsler Adult Intelligence Scale (WAIS) and the Wechsler Intelligence Scale for Children (WISC). Students will have the opportunity for practical work in administration and interpretation of both these scales. The course is designed for classroom teachers, special education teachers, school psychologists, and guidance personnel. A certificate will be issued to those who complete the testing requirements under supervision. Prerequisite: Introductory course in Measurement.
G. Flint Taylor S-226
3 Semester Hours

HI8-668 United States Constitutional History, 1789 - Present
The history of the U.S. Supreme Court; creation under the constitution, the Marshall and Taney Courts, effects of the Civil War, post-Civil War Court, the White, Taft, Hughes, Stone, Vinson and Warren Courts. Federal-State Relations, Civil Liberties, and Economic spheres of influence.
Robert Spector LRC-116
3 Semester Hours

ME8-280 Advertising and Publicity in the Media
The course covers the selection, planning, and use of the mass media for the dissemination of information to the general public. It includes the principles of marketing, cost and rating analysis, the development of advertising and publicity campaigns, and the preparation of materials to be used.
David Seiffer LRC-116
3 Semester Hours

PH8-130 Ethics: Moral Dimensions of Human Existence
A dialectical examination of the questions: Is life worth living? What is good? How do we judge these matters? Are there any standards? Which is more important, conscience or law? How do I resolve the problems of justice, abortion, divorce, lying, war, punishment, love friendship and happiness? Formerly PH8-779
Neil Brophy S-225A
3 Semester Hours

PY8-893 Man's Environment: The Oceans

This course offers an elementary presentation of oceanology with consideration given to the environmental problems faced by man and his technology as he studies the ocean environment. Topics to be considered are: the geography of the sea, physical and chemical properties, the ocean environment, the dynamic integration of land, sea, and air, and the contaminated ocean.
Harold L. Chapman S-228
3 Semester Hours

MONDAY AND WEDNESDAY NIGHTS

BI8-956 General Zoology

The fundamental concepts of animal biology, including anatomy and physiology, development, genetics, taxonomy, ecology, and evolution.
Surinder Paracer S-128
4 Semester Hours

CH7-800 Introduction to Chemistry

Topics include: atomic structure, quantum theory, chemical bonding, periodic trends, stoichiometry, equilibria and reaction rates, oxidation and reduction, acid and base theory, radioactivity and nuclear chemistry. Prerequisites: None
Alan D. Cooper S-316
3 Semester Hours

ED8-751 Intro to Psychological Foundations of Education

This course covers the theoretical aspects of psychology for the classroom teacher. It includes a systematic analysis of the major schools of psychology and a study of the effects of heredity and environment. Reading in the following areas will be required: results of research on growth and development, theories of intelligence, concepts in measurement and evaluation, individual differences in capacity and achievement, and learning theory.
Kathleen Burns S-205
3 Semester Hours

ED9-052 Research in Education

This course will stress the use of appropriate research methods in the selection and evaluation of data. It is designed to aid the graduate student in the preparation and understanding of research reports. Major areas of emphasis will include the nature and criteria for evaluating research, library techniques and resources, selection and documentation, organization and format of report, and necessary statistical concepts and methods of research. The student will be expected to demonstrate his knowledge of these in a term research study.
David Hilton S-228
3 Semester Hours

ED9-092 Public School Administration, Part I

A historical, philosophical and sociological study of American School Administrator with a mjor emphasis on the function, duties and responsibilities of the

school administrator. A practical investigation into the daily problems, roles, techniques, and evaluations that are required by the administrator.
Theodore Provo S-231
3 Semester Hours

ED9-290A Advanced Philosophy of Education

This course will explore the nature and meaning of education through the examination of basic metaphysical and epistemological principles and their relationship to concret subjective modes of existence, both personal and social. Contemporary ethical, political, social and philosophical issues will be evaluated in relation to the purpose of education in an effort to arrive at a positive and viable foundation for a humane society. Each student will be expected to work with primary sources in conjunction with their selected research effort.
Prerequisite: Intro to Philosophical Foundations of Education, or permission of the instructor.
Donald Traub S-226
3 Semester Hours

ED9-753 Advanced Psychological Foundations of Education

In this course class-members will study and evaluate the role of those environmental, mental and extramental forces which motivate all learners to utilize fully their capacities, aptitudes. It includes a systematic analysis of the major schools of psychology with special attention focused on the contemporary schools. Attention is given to the teacher's role in the learning process and special emphasis will be centered on the application of these principles to specific classroom situations.
Prerequisite: Educational Psychology or permission of the instructor.
Joseph Shea S-205
3 Semester Hours

GU8-061 Principles and Practices in Guidance

This is an introductory course designed to provide the student with an understanding of the need, meaning and scope of guidance services. The principles and practices involved in the following guidance areas will be considered: introduction and philosophy of guidance; understanding the individual and his needs; essential orientation activities for the student; collecting, recording and evaluating data; interviewing and counseling, guidance through group activities; placement and follow-up activities; organization and evaluation of guidance. The emphasis of the course will be placed upon the role of the classroom teacher in the guidance program. This course or its' equivalant is a prerequisite for all advanced courses in guidance.
Leonard Farrey S-217
3 Semester Hours

GU9-066 Pupil Personnel Services

This is a required course for personnel workers in the public schools. This course will introduce occupational, educational, and personnel career studies for appraisal

and evaluation; roles, and responsibilities of various pupil personnel; use and function of school and out-of-school agencies; clinical procedures; a full review of the most important aspects of setting up and appraising personnel programs on all levels will be stressed and studied.
Norman Limoges S-214
3 Semester Hours

GU9-069 Individual Intelligence Appraisal (Binet)

This course will be concerned with a study of the origin and use of the Stanford-Binet Intelligence Tests. Students will learn how to administer, score, and interpret the 1960 revision of the Binet. Designed for classroom teachers, special education teachers, school psychologists, and guidance personnel. A certificate will be issued to those who complete the testing requirements under supervision.
David Quist S-212
3 Semester Hours

HI8-692 Political Parties and Pressure Groups

In this course the functions, organization and methods of political parties will be studied along with the role of interest groups in the American political process.
David Twiss S-227
3 Semester Hours

MA8-583 Abstract Algebra

This course will present the development of the real number system and a discussion of some of the abstract notions of this development. The theory of groups with concrete examples will be a major topic. Other topics to be studied in this are the rings and fields. The purpose of the course is to introduce the subject of abstract algebra in a way which emphasizes the nature of the subject and the techniques of rigorous proof characteristic of modern mathematics. The course will be self-contained and geared to the backgrounds of the students involved.
W. Mack Hill S-211B
3 Semester Hours

ME8-152 Utilization of Instructional Media

This course will provide an opportunity to learn about a variety of audio-visual machines, devices, procedures, techniques and materials which make up the area of activity generally referred to as Audio-visual or Instructional Media.
Paul Davis LRC-116
3 Semester Hours

MU8-251 Music Appreciation

This course is offered to help anyone interested in increasing his knowledge and enjoyment of music. Periods covered include: Renaissance, Baroque, Classical, Romantic and Twentieth Century. Recordings and listening are important. No prerequisites or previous musical background required.
Abram Kaminsky S-124
3 Semester Hours

NU7-330 Nursing Through the Life Span I

A course for Registered Nurses in which the concepts of nursing process as applied to the practice of psychiatric nursing will be the focus.

Elizabeth Rademacher S-226
3 Semester Hours

NU8-932 Current Concepts of Public Health Nursing

This course is designed to give the Registered Nurse an understanding of the philosophy of public health and public health nursing. It will trace the history of public health nursing to the advent of recent federal legislation and its effect on the health care delivery system. Emphasis will be placed on the role of the certified home health agency, boards of health, school health programs, and neighborhood health clinics in meeting community needs.

Bernadine McQueeney S-224
3 Semester Hours

SO8-475 Introduction to Sociology

The formal study of the nature of group behavior and social interaction through the analysis of the structure and values of human groups.

Frank Pizziferri S-227
3 Semester Hours

SP8-610 Fundamentals of Spanish I

An introduction to the basics of Spanish, with emphasis on correct oral expression and comprehension of the spoken language and on the development of a 'stimulus-response'. Attention is also given to techniques of reading, writing and structure. Extensive use is made of filmstrips, tapes by native speakers, and modern dialogues oriented toward every-day speech situations. After about two months, a paperback reader with practice exercises is introduced.

Vincent DiBenedictis S-312
3 Semester Hours

TUESDAY AND THURSDAY NIGHTS

BI8-866 Introduction to Biological Techniques

Discussions of the goals, methods and limitations of science; a treatment of research in biology; the literature of biology; measurement and techniques; instrumentation, data organization; experimental design and presentation of results; laboratory supplement lectures.

Thomas L. Roberts S-128
3 Semester Hours

CS8-579 Computer Programming with Fortran IV

Mathematic and scientific problem solving; real and integer arithmetic, input and output statements, control statements, Do-Loops, basic format, subscribed variables, sub routines, double precision and character manipulation.

Michael Mulcahy S-227
3 Semester Hours

CH8-864 Environmental Chemistry

The course is designed to show the impact of chemistry on the various environmental sciences. It will present the principles of environmental chemistry and chemical ecology. Topics will include: biogeochemical cycles; the nature and composition of natural water systems; environmental chemistry of soil and agricultural chemicals; the nature and composition of the atmosphere; photosynthesis; molecules of life; energy transformations in living systems; reproduction, population growth, and control; chemical ecology including chemical interactions between plants and insects, and chemical communications within animal species.

Prerequisites: General Chemistry or its' equivalent.

Alan D. Cooper S-316

3 Semester Hours

ED8-291 Philosophy of Education

This course will consider the ontological-epistemological-axiological principles of being, knowledge and value and their relationship to the nature, existence and destiny of man and the aims of education. An analysis of the metaphysical presuppositions of the major philosophers will be a basis of a critique of the opinions concerning nature, man, science, society, sanity and salvation upon wich "educationists" have foundered and floundered. The objective is to arrive at a precise understanding of the relations between educational theory and practice in order to establish a viable interpersonal process for educating the individual and society.

Courtney Schlosser S-231

3 Semester Hours

ED8-316 Community Organization

This course will focus on the role of the community in the total framework of education. Students will define the elusive and highly controversial term, community involvement and will move to systems for recruiting, organizing, training and utilizing community resources. Special attention will be paid to the development of advisory councils at school and system-wide levels.

John Simoncini S-225A

3 Semester Hours

EN8-170 The Theatre of George Bernard Shaw

A study of the major plays and essays by the most prolific and influential playwright of the twentieth century. Particular emphasis on Shaw's prophetic vision, the evolution of his style, and the recurrent themes of his plays. Selected works from 1890 to 1950

Jeffrey L. Roberts S-225B

3 Semester Hours

GU8-063 Techniques of Counseling

This course is an introductory level course in the basic fundamentals of counseling. It is a required course for those students who are majoring in Counseling or wish to be certified as Counselors in Massachusetts. In addition to the basic Principles of Counseling, students will be involved in various role playing techniques. Where

applicable the case study techniques will be employed.
Prerequisite: Principles of Guidance
Philip Steinkrauss S-214
3 Semester Hours

GU9-071 Advanced Psychological Testing

An advanced survey of tests and testing procedures, with emphais on psychological instruments for evaluating personality variables. Both objective and projective measures of personality will be studied, stressing use in a non-clinical setting.
Prerequisite: Measurement and Evaluation for Counselors.
Richard Gilmartin S-217
3 Semester Hours

HI8-659 Marxist Theory

Marxist theory will be examined from several points of view. It will be placed in an historical framework while paying due attention to Karl Marx's antecedents and predecessors as well as his heirs. The emphasis on theory will not exclude study of the implications and implementation of the theory under several of his followers: Trotsky, Stalin, Mao Tse-tung, et al.
Gertrude Leeds S-219A
3 Semester Hours

ME8-270 Introduction to Reference Sources

In this course librarians gain an understanding of the philosophy and techniques of reference service. The content and use of the basic reference tools also will be covered. Students will use the college library in practical reference problems.
Bernard McGough LRC-118
3 Semester Hours

NU8-930 The Person in the Profession of Nursing

Designed for Registered Nurses to provide the opportunity to explore the importance of self and understanding of self in relation to others and in relation to the profession.
Lillian R. Goodman S-132
3 Semester Hours

NU8-933 The Nurse and the Law

This course is designed to introduce the Registered Nurse to some of the most important legal problems facing her profession. Such questions as malpractice, abortions, and employee-employer relationships will be covered. The goal will be to demonstrate how the nurse should handle such situations in order to both care for the patient and also comply with the law.
George Najemy S-125
3 Semester Hours

PH8-120 Philosophical Psychology

This course seeks to explore the philosophical problems relevant to human nature and the human person. Problems of mind, body, soul, life, death, immorality,

knowledge, intellect, free-will, and evolution will be examined. Through the focus of both the emirical and metaempirical methodologies. Human nature, in its physical and spiritual dimensions, will be viewed scientifically and philosophically. Formerly PH8-780.
Donald Traub S-226
3 Semester Hours

SO8-221 Cultural Anthropology

Modern cultural anthropology with cross-cultural emphasis on the human capacity for culture, social system, technology, ideology and significant aspects of the process of fieldwork.
Matthew Zelman S-126
3 Semester Hours

SO8-223 Seminar in Contemporary Social Problems

A critical analysis of the social, political, urban and industrial changes in American society, introducing specific problems of contemporary American life.
Francis Brooker S-228
3 Semester Hours

WORKSHOP: July 1 – July 12

SP8-102 Pre-Institute Workshop: "Pre-Summer Institute Intermediate-Advanced Conversational Spanish"

This intensive advanced oral expression course will be of particular use to those who plan to enroll in the proposed new Spanish master's program at WSC. Only credits obtained in the advanced level of the Summer Spanish Institute will be accepted toward this degree.
July 1 – 12, 1974 Daily: 8:15-12:30 p.m.
F. Alcala and Staff LRC-121
3 Semester Hours

CD8-103 Speech, Hearing and Language Disfunction in the Classroom

Typical symptomatology of speech, language, and hearing disfunctions. Techniques and materials for the development of these basic skills will be introduced. Was offered Spring, 1974 in Southbridge, MA.
July 1 – 12, 1974 Daily 8:15 - 12:30 p.m.
Carol E. Lysaght S-223
3 Semester Hours

CS8-013 Workshop in Computer Science

An introductory course in the Basic language. The intent of the workshop is to present to those having little or no knowledge of the computer, the power of the computer in solving problems from various fields. Students will be introduced to the computer - both hardware and software and will, through the use of a programmed text, be taught BASIC. Practical use of the computer will be stressed.
Daily 8:15 - 12:30 p.m.
R. Redding and W. Spezeski LRC-114
3 Semester Hours

CS8-170 Computer Workshop in COBOL Programming

The course content will include subjects such as the following: Introduction of COBOL, analysis of COBOL DIVISION, a survey of reserve words and action verbs; programming solutions to inventory, payroll, student records, sort/merge proglems in COBOL for tape or disc.
Daily 8:15 - 12:30 p.m.
Andrew B. Haynes, Jr. LRC-318
3 Semester Hours

ED8-064 Educational Measurement and Evaluation

This course considers the nature of measurement, its purpose and value in the learning situation, the types of measuring techniques to be employed. Attention is given to the development of certain statistical concepts facility in the selection and use measuring instruments, and in the interpretation of data secured.
Daily 8:15 - 12:30 p.m.
Ruth Griffiths S-309
3 Semester Hours

ED8-305 Individualized Instruction in Secondary Schools

This two week workshop will focus on techniques that classroom teachers may use to individualize instruction in the secondary schools. Participants will learn how to devise learning contracts, develop learning materials, evaluate student learning, and arrange learning environments. Commercially published programs will also be examined.
Daily 8:30 - 12:30 p.m.
David Quist LRC-304
3 Semester Hours

ED8-312 Methods and Materials in Early Childhood Education

Attention in this course will be focused on the curriculum and the daily activities designed to enable young children to use their developmental powers to the fullest. Students will consider the ways and means by which the teacher creates an environment rich in learning opportunities geared to the age level characteristic of young children. Registration is limited to those interested in nursery and/or kindergarten classes.
Daily 8:15 - 12:30 p.m.
Josephine Polito LRC-112
3 Semester Hours

ED9-007 Open Education at the Primary Level

Workshop is designed to give participants experience in organizing an open classroom on primary levels. Activities will include the constructing of materials, the setting up of learning centers, the development of appropriate individualized programs, and the utilization of commercial materials. Prerequisite: One year of teaching experience.
Daily 8:15 - 12:30 p.m.
Lois Ramsay - Mary Schilpp S-311B
3 Semester Hours

ED9-008 Workshop in Economic Education in the Elementary School

This workshop is designed to develop an understanding of the place of Economic Education in the Elementary School Curriculum. Programs, materials and teaching strategies in Economic Education will be analyzed. Each participant will design a teaching unit to be used in the classroom.
Instructor: T.B.A. S-311A
3 Semester Hours

ED9-010 Open Education at the Intermediate Level

Workshop is designed to give participants experience in organizing an open classroom on intermediate levels. Activities will include the constructing of materials, the setting up of learning centers, the development of appropriate individualized programs, and the utilization of commercial materials. Prerequisite: One year of teaching experience.
Daily 8:15 - 12:30 p.m.
Lois Twitchell - Ann Wilcox S-311A
3 Semester Hours

ED9-081 Developing Independent Learning Activities in Reading and Language Arts

This course will investigate the teaching of reading in the elementary school from the standpoint of the other language arts: listening, speaking and writing. Emphasis will be on the developmental process of language arts or communication skills. Materials and teaching strategies will be investigated and students will have the opportunity of sharing creative and innovative practices.
Daily 8:15 - 12:30 p.m.
Instructor: T.B.A. S-313
3 Semester Hours

ME8-071 Preparation of Inexpensive Instructional Materials

Laboratory practice in creating visual instructional media applying lettering, coloring, and mounting techniques. Products include: pictures, maps, charts, and graphs for projected and non-projected use.
Daily 8:15 - 12:30 p.m.
Paul Davis LRC-118
3 Semester Hours

ME8-275 Introduction to Photography

Basic principles, skills and techniques of photography and their application to problems of communication and instructional development.
Daily 8:15 - 12:30 p.m.
William Byers LRC-122
3 Semester Hours

PE8-006 Learning Through Movement and Interrelated Arts

An interdisciplinary arts course for classroom teachers and specialists. The course uses an elemental approach to all the arts emphasizing the creative process and its

applications to nurture physical, intellectual and emotional growth.
Daily 8:15 - 12:30 p.m.
Helena B. Semerjian Gym
3 Semester Hours

PS-214 A Workshop in Psychological Statistics and Psychological Testing

This workshop is a practical study in Psychological Statistics particularly as it is applied to Psychological Testing. Credit may be used toward certification and/or degree work in Psychology.
Daily 8:15 - 12:30 p.m. .
M.J. Allard
J.D. Widmayer LRC-120
3 Semester Hours

SO8-021 Sociology of Religious Movements

Designed as a comparative study of religious institutions and systems of belief with emphasis on the mystical and natural components of the religious phenomena.
Daily 8:15 a.m. - 12:30 p.m.
Faith Zeadey LRC-116
3 Semester Hours

WORKSHOP: July 15 – July 26

EC8-018 Economic Education

This course is designed to present some of the basic ideas of economics while introducing the student to alternative ways of teaching economics other than by using encyclopedic economic texts. To acquaint the students with the available free print and non-print materials concerning economics which are availalbe to social studies teachers, some of these will be used during the course.
Stephen Trimby LRC-118
3 Semester Hours

ED8-009 Developing Independent Math for Young Children

Purposes: To survey commercial materials and teacher-made games which can be adapted for use in traditional and open-classroom situations. To explore methods for co-ordinalting mathematics activities to strengthen logical thinking as well as the typical quantitive skills associated with mathematics curriculums. To produce and organize many independent mathematics activities for your own classrooms in a workshop atmosphere.
Daily 8:15 - 12:30 p.m.
Instructor: T.B.A. S-313
3 Semester Hours

ED8-018 "Begone Dull Grammar"

"Begone Dull Grammar" is a course for teachers - particularly those who have to or want to teach grammar. Students will review research and investigate causes for failures of past grammar approaches. Then, through ex-

periencing alternative approaches, participants will prepare themselves to implement and verify more interesting and effective means to achieving fewer errors and greater syntactical flexibility in student writing. The course will include ways to achieve grammar objectives --- a)with students producing and studying a wide range of authentic single-sentence composition form; b) coordinated with a well-motivated writing program; c) in a program aimed also at increasing self-awareness, human relations, and personal growth; d) as an integral part of language arts activities that more easily engage student involvement; e) with means to measure student gains and compare "authentic" with more traditional grammar approaches. A specific research design will be introduced and teachers invited to share in a year-long experimental study conducted by Professor Osborne. A prior reading of James Moffett's A Student Centered Language Arts Curriculum, Grades K-13 (Houghton-Miflin) is advisable.
Daily 8:15 - 12:30 p.m.
Chad C. Osborne LRC-120
3 Semester Hours

ED8-019 Child Development & Developmental Deviations

This course reviews theories of child development with particular emphasis on reimforcement theory (behavior analysis). Students observe children with learning problems where possible and analyze current behavior from the standpoint of environmental factors maintaining it. Those factors which may have led to the establishment of behavior patterns also are discussed in detail.
Daily 8:15 - 12:30 p.m.
Josephina Bunuan LRC-116
3 Semester Hours

ED8-304 Individualizing Instruction in the Elementary School

This course will examine several approaches to individualization in the elementary school. Opportunity for design, try-out and evaluation will be offered. Adaptation to individualization of present curricula will be encouraged.
Daily 8:15 - 12:30
Charles Geer S-311B

ED8-550 Modern Mathematics in Intermediate Grades

The purpose of this course is to give the student a fundamental understanding of the concepts and techniques of arithmetic. Of major interest to the prospective and in-service teacher, the course presents the modern approach to elementary mathematics which concerns not only "how" but also "why" certain arithmetic operations are performed. The workshop format allows for students participation in providing manipulative and other means for plausible basic properties of the number system.
Daily 8:15 - 12:30
Gloria Aspesi S-311A
3 Semester Hours

ED9-315 Administration of Programs for Young Children

This course will outline steps for the organization and administration of day care centers, nursery schools, and other programs which include children from the years of 1—6. Curriculum planning and staff supervision will be discussed and so will licensing procedures and funding resources.
Daily 8:15 - 12:30
Josephone Polito LRC-112
3 Semester Hours

ED9-101 The Substitute Teacher in the Elementary School

This course is designed to acquaint the substitute teacher with the requirements and responsibilities of the temporary teacher. The relationships with the administration, fellow teacher and the children will be examined. Techniques of class control and instruction for real learning will be developed. Case studies, mini teaching, and evaluative procedures will be used.
Daily 8:15 - 12:30 p.m.
Ruth Girffiths S-309
3 Semester Hours

ME8-278 Advanced Photography I

Zone System of photographic vision and light-metering; materials control, ADA Testing; printing materials selection and control. Evolution of personal point of view; instruction in lay-out and design of photos; major project is a book of photographs. Prerequisite: ME 150, Introduction to Photography or Instructor's Permission. Course limited to 20 students.
Daily 8:15 - 12:30 p.m.
William Byers LRC-122
3 Semester Hours

PH8-748 Workshop: Philosophy of Human Potentiality An Experiential Approach

Theories and Practices from the Human Potentials Movement will be used to unlock the potentialities for growth and self-being of each participant. The concepts and experiences of centering, encountering energy-flow, self-actualization, consciousness-deepening, body-awareness and creative-freedom, will be developed through intrapersonal, interpersonal and transpersonal situations. Focus will be upon the existentiality and spirituality of human experiencing.
Daily 8:15 - 12:30 p.m.
Courtney Schlosser LRC-304
3 Semester Hours

WORKSHOP: July 29 — August 9

EC8-225 Consumer Economics

A basic study of personal and family finance with emphasis on the various avenues of obtaining income

and budgeting expenditures. We will consider the process of obtaining credit, buying insurance, and various forms of personal saving or investment opportunities for the consumer. Some brief attention will be given to consumer protection legislation near the end of the course.
Daily 8:15 - 12:30 p.m.
George T. Kelley LRC-120
3 Semester Hours

ED8-004 Science Activities for the Elementary School

This course will examine several approaches to the teaching of instruction in elementary school science. Teachers will have an opportunity to design science activities consistent with existing curricula. It is hoped that these activities will be tried out with children and evaluations made. Environmental education will be encouraged.
Daily 8:15 - 12:30
Charles E. Geer S-311A
3 Semester Hours

ED8-005 Seminar/Workshop in Humanistic Education

"Humanistic education" is a term descriptive of a varied and multi-faceted movement in contemporary education aimed at the flowing together of thinking (cognitive) and feeling (affective) elements in learning. Participants in this course will examine both verbally and experimentally a number of individual and group approaches that can be adapted to their classrooms. About one quarter of the course will concern higher level thinking while the remainder will explore ways learning can deal with feelings, values, and self-concept. There will be both personal and professional emphasis in class activities and assignments; that is, participants will explore their own potential for self-awareness and growth — and will also adapt and develop curricular applications to their own teaching fields.
Daily 8:30 - 9:45 a.m.
Chad Osborne LRC-121
3 Semester Hours

ED8-030 Career Education

Through this workshop teachers will be able to develop a successful model for implementing a career education program in their classrooms. Teachers will be made aware of available materials and teaching strategies which may be used.
Daily 8:15 - 12:30 p.m.
Instructor: T.B.A. S-309
3 Semester Hours

ED8-099 Adult Education Workshop

This course offers a series of independent, modular units, interspiced with presentations from various class members and outside speakers. There will be at least one field trip to see a successfully adult education program. Examples of such programs might be the Community Education Center on the Worcester State Campus or the Adult Learning Center located in the Worcester Galleria. In this way, course participants

will be afforded a broad overview of the field as well as being actively involved in the evolution of the experience.
Daily 8:15 - 12:30 p.m.
Mark H. Rossman LRC-304
3 Semester Hours

ED9-013 Seminar in Human Relations Training for Teachers and Administrators of Young Children

Students and participants examine communication as a vital factor of human relations through the use of a training group. Emphasis is given to the analysis of individual and group behavior with a focus on problems of communications as they relate to a variety of organizing systems. A review of socio-psychological literature provides source material for the examination of related ideas.
Josephina Bunuan LRC-116
3 Semester Hours

ME8-273 Cataloging & Organizing Learning Materials

The principles and procedures involved in acquisition, cataloging and processing of book and non-book materials will be studied and practiced. The aim of the course is to develop skills in the utilization of libraries and in instructing others on how to use libraries.
Vincent Piccolo LRC-118
3 Semester Hours

SP8-103 Spanish Summer Institute

The Spanish Summer Institute has been established mainly to improve and consolidate language abilities in a new and different set-up.
The two advanced groups, in addition, are required to participate in one of the following workshops:
1) Reading and discussion of modern Spanish theatre, and the production of a short one-act play.
2) Methodology of teaching a foreign language.
Also incorporated within the workshops will be an activity period (dancing, cooking, singing, etc.) all of which will culminate in a final "fiesta" open to the public.
F. Alacala LRC-112
LRC-114
LRC-117
4 Semester Hours

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